

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A contactless data carrier with an antenna and a chip, comprising a data carrier on which are disposed data which are transmittable to a reading device via an optical data transmission channel, and on which are disposed data which are transmittable to a reading device via an antenna-based data transmission channel,

wherein the chip has storage areas, including at least one storage area that is freely readable and at least one storage area that is only readable after an authentication of the data carrier and the reading device,

wherein the storage area is only readable after an authentication of the data carrier, and the reading device having at least one first data record, and the freely readable storage area having at least one second data record clearly allocated to the first data record and is derivable from the first data record.

2. (Canceled)

3. (Canceled)

4. (Previously Presented) The data carrier according to claim 1, wherein the stored data records are stored as data records encrypted with a cryptographic key.

5. (Previously Presented) The data carrier according to claim 3, wherein the second data record forms a compression value of the first data record.

6. (Previously Presented) The data carrier according to claim 1, wherein a light-sensitive component is disposed on the data carrier and controls the function of the chip in dependence on the brightness.

7. (Previously Presented) The data carrier according to claim 1, wherein optically readable information is applied onto the data carrier.

8. (Previously Presented) The data carrier according to claim 7, wherein a matrix code is applied onto the data carrier.
9. (Previously Presented) The data carrier according to claim 7, wherein a bar code is applied onto the data carrier.
10. (Previously Presented) The data carrier according to claim 1, wherein a display for representing optical data is disposed on the data carrier.
11. (Previously Presented) The data carrier according to claim 1, wherein an illuminant for sending optical signals is disposed on the data carrier.
12. (Previously Presented) The data carrier according to claim 1, wherein an optical receiving means for receiving optical signals is disposed on the data carrier.
13. (Previously Presented) The data carrier according to claim 1, wherein a loudspeaker is disposed on the data carrier.
14. (Previously Presented) The data carrier according to claim 1, wherein a vibration detector is disposed on the data carrier.
15. (Previously Presented) The data carrier according to claim 1, wherein an authentication requires the use of the two data transmission channels.
16. (Previously Presented) A method for reliably determining the deliberate use of a contactless data carrier, comprising, in dependence on the data to be exchanged between the data carrier and a reading device, in addition to an antenna-based contactless data transmission, effecting an optical data transmission with the help of data disposed on the data carrier,
wherein for a readout of a first data record, in a first step the reading device reads out a second data record, which is allocated to the first data record, and data optically represented on the data carrier.

17. (Previously Presented) The method according to claim 16, comprising effecting the data transmission in a bi-directional fashion.
18. (Previously Presented) The method according to claim 16, comprising selectively switching between the optical and the antenna-based data transmission.
19. (Previously Presented) The method according to claim 16 including effecting at least a one-sided authentication between the reading device and the data carrier.
20. (Previously Presented) The method according to claim 19, wherein the authentication is effected by the optical data transmission.
21. (Previously Presented) The method according to claim 19, wherein the authentication is effected in such a way that it requires the use of both contactless antenna-based data transmission and optical data transmission that together define two data transmission channels.
22. (Previously Presented) The method according to claim 21, wherein a random number is requested via one of the two data transmission channels, either the optical or the antenna-based data transmission channel, and is transmitted via the respective other data transmission channel.
23. (Canceled).
24. (Previously Presented) The method according to claim 16, wherein in a second step, the reading device forms a value derived from the read-out data and a secret key; in a third step, on the basis of the derived value, the authentication between the reading device and the data carrier is effected; and in a fourth step, the first data record is read out by the reading device.
25. (Previously Presented) The method according to claim 24, wherein in a fifth step, from the first data record a compression value is formed, and in a further procedure

step a comparison is effected between the such formed compression value and the second data record.

26. (Previously Presented) The method according to claim 19, wherein the authentication is carried out in the manner of a challenge-response method.

27. (Previously Presented) A reading device for reading a contactless data carrier, comprising means for reading optical data and being configured that, for a readout of a first data record contained in a protected storage area of the data carrier, the reading device first reads out a second data record contained in a freely readable storage area of the data carrier and data optically represented on the data carrier.

28. (Previously Presented) The reading device according to claim 27, comprising means for sending an optical signal.

29. (Previously Presented) The reading device according to claim 28, comprising means for modulating the optical signal.

30. (Previously Presented) The reading device according to claim 28, comprising an infrared interface.

31. (Previously Presented) The reading device according to claim 27, wherein the device is formed as a mobile terminal.

32. (Previously Presented) The reading device according to claim 27, wherein the device has an interface for the near field communication.

33. (Previously Presented) The reading device according to claim 27, wherein the device is adapted to read a contactless data carrier according to claim 1.